

NOVEMBER/DECEMBER 2025

**23PMB42 — RESEARCH METHODOLOGY
AND BIOSTATISTICS**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.



1. What are constraints in research?
2. Define data collection.
3. What is meant by nominal variables?
4. Define plagiarism.
5. Explain biostatistics.
6. Define correlation coefficient.
7. Expand ANOVA.
8. Write about regression.
9. List out computer oriented statistical techniques.
10. Define multi linear constraints.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Explain about synopsis presentation.
Or
(b) Analyse about different types of research.
12. (a) Predict the importance of probability sampling.
Or
(b) Inspect the ethical issues in publication.
13. (a) How to estimate the measures of central tendency?
Or
(b) Dissect the significance of t-test.
14. (a) Write about linear regression methods.
Or
(b) Explain about standard error test.
15. (a) Make a brief note about probability theory
Or
(b) Inspect the regression models of FDS curves

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Construct the detailed notes about primary and secondary data collection.
17. Explain in detail about report writing.
18. Describe about Variance and standard deviation.
19. Briefly explain about two way classification of ANOVA.
20. Organise about computer oriented statistical techniques.

